

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
2 June 2005 (02.06.2005)

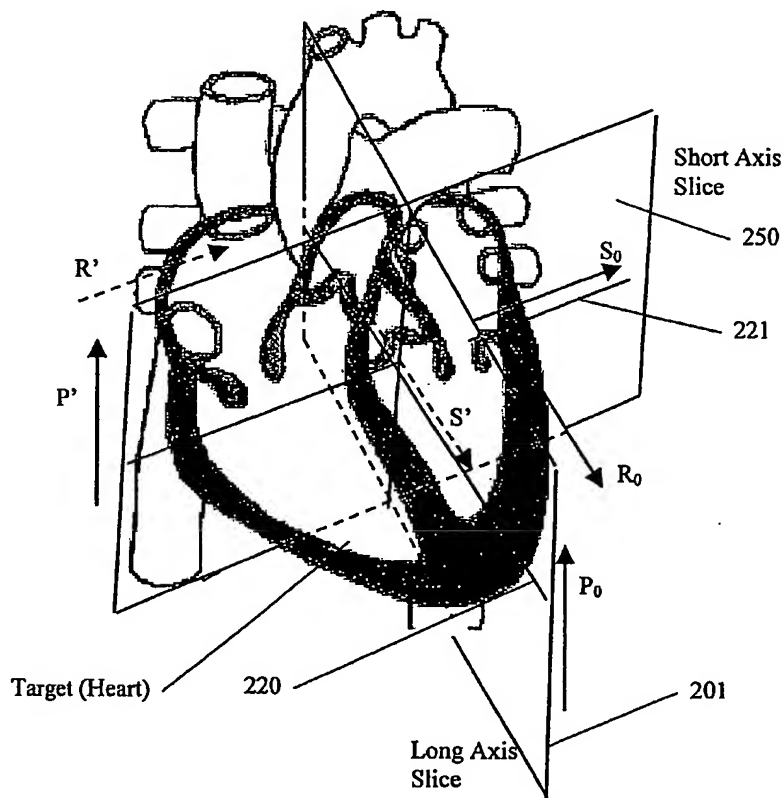
PCT

(10) International Publication Number
WO 2005/048816 A2

- (51) International Patent Classification⁷: **A61B** NY 10010 (US). AXEL, Leon [US/US]; 2214 Delancey Place, Philadelphia, PA 19103 (US).
- (21) International Application Number: PCT/US2004/038145 (74) Agent: ABELEV, Gary; Dorsey & Whitney, LLP, 250 Park Avenue, New York, NY 10177 (US).
- (22) International Filing Date: 15 November 2004 (15.11.2004) (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 60/520,080 14 November 2003 (14.11.2003) US
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[Continued on next page]

(54) Title: METHOD, SYSTEM, STORAGE MEDIUM AND SOFTWARE ARRANGEMENT FOR RADIAL PRESCRIPTION OF LONG-AXIS SLICES IN MAGNETIC RESONANCE IMAGING EXAMINATIONS



(57) Abstract: A method, system, and software arrangement for automatically prescribing long-axis magnetic resonance imaging ("MRI") slices of a target are provided. An MRI image is captured along a short-axis slice of the target. Vectorial components, including slice selection, phase-encoding, and frequency-encoding vectors, are extracted from the short-axis slice. Vectorial components are established for a long-axis slice using the vectorial components of the short-axis slice, by transposing the slice-selection and frequency-encoding vectors. A plurality of long-axis slice planes are defined in a manner positioned relative to the long axis slice, rotating about a long axis in a direction of a long-axis frequency encoding vector. In one exemplary embodiment, frequency and phase shifts are established for each of the long-axis slices, for use in RF transmitting and receiving.



FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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